

MULE-HIDE # 221 WET DRY PLASTIC CEMENT

PRODUCT DESCRIPTION

Mule-Hide #221 Wet/Dry Plastic Cement is a general purpose formulation for wet weather repair of roof leaks. Heavy “trowel-grade” consistency makes this product ideal for sealing and patching temporary emergency holes and cracks in roofs, even in standing water. Though combustible, this product requires no “red tag” labeling for fire hazard.

BASIC USES

Mule-Hide #221 Wet/Dry Plastic Cement is designed to apply to wet or dry surfaces for repairing composition shingles, asphalt built-up roofs, metal and masonry roofs, for sealing leaks and openings around flashings, chimneys, vents, skylights, metal joints, gutters and similar objects. Not recommended for use with SBS modified bitumen membranes. Not to be used with any APP modified products.

PHYSICAL PROPERTIES*

Appearance Fibrous black/thick	SETA Flash point 105F	Solids by Weight 70% min
Color Black	Behavior @140F No Sag or cracking	Specific Gravity @ 77F 1.15-1.17
Consistency @ 77F Trowel applied	VOC (Max) 300 g/l	Sizes 4.75 gal/18.0 L
Coverage 12.5 sq.ft/gal	Weight per Gallon 9.4-10.0 lbs	Suspendability Uniform

* Data reported is based on available independent and in-house resources. Mule-Hide reserves the right to change or modify, at its discretion, and without prior written notice, any of the information, requirements, specifications or policies contained in this document.

PACKAGING

Available in 3.0 and 5 gallon pails

APPLICATION METHODS AND RECOMMENDATIONS

Application Rate: Approximately 8 gallons per square for a 1/8” coat applied to both surfaces.

Surface Preparation: All surfaces to be adhered must be clean and free from any foreign matter such as oil, grease, dirt or any debris that could inhibit the bonding capabilities of the roof cement.

Installation Method: Use notched trowel or wide-edged putty knife to apply cement evenly and in equal amounts to substrate and asphalt membrane flashing. Coat should be 1/8” thick on each surface, without gaps, dry areas or bubbles.

Attachment: Sealing/Repairs: Repair cracks, breaks, tears and small holes by applying cement to surface to a ¼” thickness, working the cement into the opening or crack and spread beyond repair area approximately 2-4 inches. If repair area is over ¼” wide or more than 2” long, embed glass or polyester fabric into the cement for added reinforcement, then cover with additional cement. If desired, repeat procedure for coursing application and feather each layer of fabric beyond underlying layer.

Temperature Range: Apply only when temperatures are 45°F (7.2° C) and rising. Cold weather will cause product to stiffen, making application difficult. Store unopened container 24 hours at room temperature

MULE-HIDE PRODUCTS CO., INC.

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prior to application. Do not heat container or attempt to thin this product. Not recommended for application on substrates that exceed 140°F (76° C).

Storage/Handling & Fire Warning: Mule-Hide # 221 Wet/Dry Plastic Cement is combustible and should always be kept away from heat, open flame and any source of ignition. Observe normal safeguards for storing and handling of this product prior to and during application.

Clean Up: Keep containers covered when not in use. Clean equipment and over spray with kerosene, mineral spirits or petroleum naphtha. Clean hands with waterless hand cleaner.

PRECAUTIONS AND WARNINGS

COMBUSTIBLE LIQUID AND VAPOR

Contains petroleum distillate. Harmful or fatal if swallowed. Close container after each use. DO NOT TAKE INTERNALLY! Vapor harmful. May affect the brain or central nervous system causing dizziness, headache, or nausea. Causes nose and throat irritation. Causes eye irritation. Causes skin irritation. Reports have associated repeated and prolonged occupational exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat and open flame. Use only with adequate ventilation. CLOSE MAIR INTAKES on roof until solvents dissipate. Do not breathe vapors. If you experience eye watering, headache, or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Dispose of container and unused contents in accordance with Local, State and Federal regulations.

KEEP OUT OF REACH OF CHILDREN.

First Aid: In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately. If **swallowed**, do not induce vomiting. Get medical attention immediately.

If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with Local, State and Federal regulations.

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, or birth defects, or other reproductive harm. **Employers** should obtain a copy of the **Material Safety Data Sheet (MSDS)** from your supplier or directly from Mule-Hide at 800-786-1492 or the website at www.mulehide.com.

CUSTOMER SERVICES

Contact Mule-Hide Products Co., Inc. at 800-786-1492.

QUALITY STANDARDS AND APPROVALS

Mule-Hide #221 Wet/Dry Plastic Cement meets or exceeds the requirements of ASTM D 4586 Asphalt Roof Cement, Asbestos-free, Type I. Mule-Hide #221 Wet/Dry Plastic Cement meets or exceeds the requirements of ASTM D 3409 adhesion to damp or wet surfaces.

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COMPATIBILITY AND LIMITATIONS

Do not use directly over wood or on surfaces previously covered with coal tar products. Not to be used with any APP modified products or any modified bitumen membranes that have a plastic film surface or are metal foil faced. Not recommended for use with SBS modified bitumen membranes.

DISCLAIMER

The statements provided concerning the material shown are intended as a guide for material usage and are believed to be true and accurate. No statement made by anyone may supersede this information, except when done in writing by Mule-Hide Products Co., Inc. Since the manner of use is beyond our control, Mule-Hide does not make nor does it authorize anyone to make any warranty of merchantability or fitness for any particular purpose or any other warranty, guarantee or representation, expressed or implied, concerning this material except that it conforms to Mule-Hide's physical properties. Buyer and user accept the product under these conditions and assume the risk of any failure, any injury of person or property (including that of the user), loss or liability resulting from the handling, storage or use of the product whether or not it is handled, stored or used in accordance with the directions or specifications. Mule-Hide must be notified in writing of any claims and be given the opportunity to inspect the complaint or failure before repairs are made.

Form # PDS- A221
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